

Self-Regulating Heating Cable LTM

LTM is an industrial-grade self-regulating heating cable that can be used for freeze protection of pipelines and vessels in non-Ex areas.

The power output adjusts automatically in response to the ambient temperature.

Due to its self-regulating characteristics it will not overheat even when the cable is overlapped. This guarantees maximum safety and reliability.

Installation of LTM heating cable is quick and simple and requires no special skills or tools.

Thanks to its parallel construction the heating cable can be fitted on site to exact length without any complicated design calculations.

The LTM cable with fluoropolymer outer jacket is characterized by high resistance to high temperatures, chemicals and UV radiation.

Termination, splicing and power connection components are available in convenient kits.

Features

- 10 or 15 W/m
- Self-regulating, automatically adjusts power output in response to ambient temperature
- Thermoplastic and fluoropolymer outer jacket
- Easy to install
- Can be cut to required length on site without any complicated design calculations
- Will not overheat even when overlapped
- Full range of accessories available
- UV and high chemical resistance (fluoropolymer)

Application Areas

- Freeze protection of pipelines and vessels (non-Ex)



Construction

1. 0.56 mm² nickel-plated copper conductors
2. Semi-conductive self-regulating matrix
3. Matrix insulation
4. Aluminum foil with drainage wires or tinned copper braid
5. Thermoplastic or fluoropolymer outer jacket

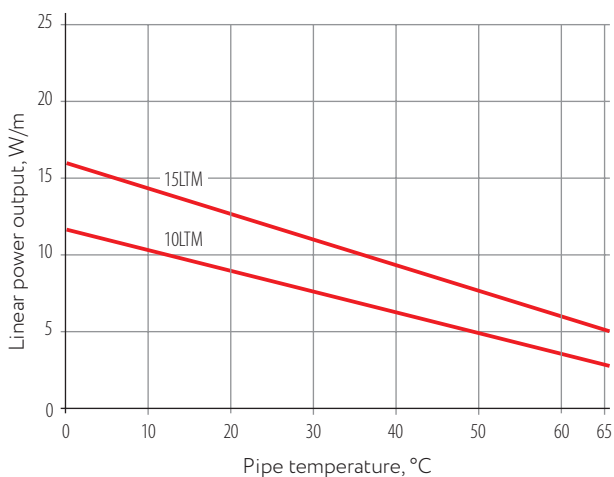
Self-Regulating Heating Cables

Technical Data

Rated voltage	230 VAC
Maximum continuous operating temperature (trace heater energized)	+65 °C
Maximum continuous exposure temperature (trace heater de-energized)	+85 °C
Ambient temperature range	-60 ... +55 °C
Minimum installation temperature:	
Thermoplastic outer jacket	-30 °C
Fluoropolymer outer jacket	-60 °C
Minimum bending radius	25 mm
Maximum screen resistance	18 Ohm/km
Maximum braiding resistance	10 Ohm/km
Conductor cross-section	0.56 mm ²
Dimension:	
Thermoplastic elastomer outer jacket, aluminum foil	8.30×5.50 mm
Fluoropolymer outer jacket, braiding	8.60×5.40 mm
Weight:	
Thermoplastic elastomer outer jacket, aluminum foil	66 kg/km
Fluoropolymer outer jacket, braiding	98 kg/km

Power Output Curve

Nominal power output at rated voltage 230 VAC



Maximum Heating Circuit Length

For use with type C circuit breakers according to IEC 60898-1:2015

Type	Turn-on temperature, °C	Heating circuit length/m at 230 VAC 10 A
10LTM	10	88
	-20	68
15LTM	10	63
	-20	46

Approvals



Marking

Example: 15LTM-AT



1. Linear power output, W/m at +10 °C
2. Cable type
3. Screen type: B – tinned copper wire braiding, A – aluminum foil screen
4. Outer jacket material: T – Thermoplastic elastomer, P – Fluoropolymer

Types

Outer jacket type	Order code	Outer jacket color	Name	Power output, W/m
Thermoplastic elastomer outer jacket, aluminum foil	1101000000	Black	10LTM-AT	10
	1101000001		15LTM-AT	15
Fluoropolymer outer jacket, braiding	1101000004	Blue	10LTM-BP	10
	1101000005		15LTM-BP	15